LAPT REC' DECTIPTO 09 MAY 2006

FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE (REV. 7-2005) TRANSMITTAL LETTER TO THE UNITED STATES

DESIGNATED/ELECTED OFFICE (DO/EO/US)

ATTORNEY'S DOCKET NUMBER

868A.0034.U1(US)

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

(CON	ICERNING A SUBMISS	SION UNDER 35 U.S.C. 371	10/5/8099				
INTERNATIONAL APPLICATION NO.			INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED				
PCT/FI2004/000674 12 November 2004 17 November 2003 TITLE OF INVENTION								
	Pulse-Based Communication							
ĄPPI	ICAN	T(S) FOR DO/EO/US	-					
Jukk	a RE	UNAMAKE, Arto PALIN						
Appli	cant h	erewith submits to the United State	es Designated/Elected Office (DO/EO/US) the f	following items and other information:				
1.	\boxtimes	This is a FIRST submission of ite	ems concerning a submission under 35 U.S.C.	371.				
2.		This is a SECOND or SUBSEQU	ENT submission of items concerning a submis	sion under 35 U.S.C. 371.				
3.		This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.						
4.		The US has been elected (Article	÷ 31).					
5.	\boxtimes	A copy of the International Applic	ation as filed (35 U.S.C. 371 (c)(2))					
		a. 🗵 is attached hereto (requ	ired only if not communicated by the Internation	onal Bureau).				
		b. has been communicate	d by the International Bureau.					
		c. is not required, as the a	pplication was filed in the United States Received	ving Office (RO/US).				
6.		An English language translation of	of the International Application as filed (35 U.S.	C. 371(c)(2)).				
		a. is attached hereto.						
		b. has been previously su	bmitted under 35 U.S.C. 154(d)(4).					
7.		Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))						
		a. 🔲 are attached hereto (required only if not communicated by the International Bureau).						
		b. have been communicated by the International Bureau.						
			owever, the time limit for making such amendm	nents has NOT expired.				
		d. have not been made an	•	45-1- 40 (05-11-0 O 0744-)(0)\				
8. 9.	IJ ⊠	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).						
10.		An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).						
10.	_	An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).						
11.	Ι ΣΙ		inary Examination Report (PCT/IPEA/409).					
12.	X I	A copy of the International Searc	h Report (PCT/ISA/210).					
	_	3 to 23 below concern documen	t(s) or information included:					
13.	⊠	An Information Disclosure Statement under 37 CFR 1.97 and 1.98.						
14.	Ø	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.						
15.	Ø	A FIRST preliminary amendment.						
16.		A SECOND or SUBSEQUENT preliminary amendment.						
17. 18.		A substitute specification.						
19.		A power of attorney and/or change of address letter.						
20.		A computer-readable form of the sequence listing in accordance with PCT Rule 13 <i>ter</i> .2 and 37 CFR 1.821 - 1.825.						
21.		A second copy of the published International Application under 35 U.S.C. 154(d)(4). A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).						
22.	\boxtimes		836 041 879 US	22. 30 0.0.0. 10 (0)(1)				
		. 2.						

IAP12 Rec'd PCT/PTO 09 MAY 2006

PTO-1390 (Rev. 07-2005)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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U.S. AP	PLICATION I	NO (if known, see 37 CFR 1.5)		,	INTERNATIONAL APPLICATION NO.		ATTORNEY'S DOCKET NUMBER	
	10/5/8099 PCT/FI2004/000674		JU674	868A.0034.U1(US)				
23.	Other items	or information:						
J	Finnish Sear	rch Report						
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The	following fe	ees have been s	submitted:	:			CALCULATIONS	PTO USE
24. 🖾	Basic natio	onal fee				\$300	\$ \$300.00	
25. 🛛		on fee (37 CFR						
If the wri	itten opinion I by IPEA/U	n prepared by IS IS indicates all o	A/US or t	he international preliminal isfy provisions of PCT Art	ry exa	mination report	\$ \$200.00	
	-			* *		\$200		
26. 🛛	Search fee	e (37 CFR 1.492	2(b))			,		
if the wri	itten opinion IPEA/US ir	iof the ISA/US o idicates all clair	or the Interns	rnational preliminary exam provisions of PCT Article	ninatio (1)33	on report)-(4) \$0		
Search f	ee (37 CFR	: 1.445(a)(2)) ha	s been pa	aid on the international ap	plicati	ion to the	\$ \$400.00	
Internation	onal Search	Report prepare	d by an i	SA other than the US and	provi	ided to the		
	•		•	the IB		\$400 \$500		
7 111 011101		OF 24, 25 and			• • • •	\$500	\$ \$900.00	
□ Add				ings filed in paper over 10	0 she	ets (excluding		
listir	ng in an ele	ctronic medium tor each additi	(37 CFR	ings filed in paper over 10 FR 1.821(c) or (e) or com 1.492(j)). neets of paper or fraction	ipulei	r program		
Total Sh				per of each additional 50 o				
TOTAL SIL	eeis	Extra Sheets		thereof (round up to a wh		RATE		
	- 100 =	0 /50 =		0		× \$250.00	\$ \$0.00	
Surchard	ge of \$130.0 on after the	00 for furnishing date of comme	any of the	e search fee, examination of the national stage (37 (fee, o	or the oath or 1.492(h)).	\$	
	AIMS	NUMBER F		NUMBER EXTRA		RATE		
Total cla	ims	20	- 20 =	0	х	\$50.00	\$ \$0.00	
Independ	dent claims	4	- 3=	1	x	\$200.00	\$ \$200.00	
MULTIP	LE DEPEN	DENT CLAIMS	(if applica	ble)	+	\$360.00	\$ \$0.00	
TOTAL OF ABOVE CALCULATIONS =					JLATIONS =	\$ \$1,100.00		
☐ App 1/2.		s small entity st	atus. See	37 CFR 1.27. Fees abov	e are	reduced by	\$ \$0.00	
			 -			UBTOTAL =	\$ \$1,100.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).						months from	\$ \$0.00	
TOTAL NATIONAL FEE =						\$ \$1,100.00		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be						\$ \$40.00		
Fee for re	ecording the	e enclosed assignate cov	gnment (3 er sheet (7 CFR 1.21(h)). The ass	ignme	ent must be property +	\$ \$40.00	
Fee for naccompa	ecording the	e enclosed assign appropriate cov	gnment (3 er sheet (7 CFR 1.21(h)). The ass 37 CFR 3.28, 3.31). \$40	per p	ent must be roperty + NCLOSED =		
Fee for raccompa	ecording the anied by an	e enclosed assig appropriate cov	gnment (3 er sheet (7 CFR 1.21(h)). The ass 37 CFR 3.28, 3.31). \$40	per p	roperty +		\$

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C.	×	The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No50-1924 A duplicate copy of this sheet is enclosed.						
d.		Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.						
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 SFR 4.137(a) or (b)) must be filed and granted to restore the International Application to pending status.								
SE	ND A	ALL CORRESPONDENCE TO:	Ha.	2				
Cι	ıston	ner No. 29683	SIGNATURE	June				
		gton & Smith, LLP	Harry F. Smith					
		arch Drive a, CT 06484-6212	NAME					
		25-9400	32,493	32,493				
			REGISTRATION NUMBE	R				
			9 May 2	-00 G				
			DATE	•				

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IAP12 Rec'd PCT/PTO 09 MAY 2006

Express Mail No. EV 836 041 879 US IN THE U.S. PATENT AND TRADEMARK OFFICE

In re U.S. Patent Application of: Applicant: Reunamäki et al.

U.S. Serial No.:

International Application No.: PCT/FI2004/000674

International Filing Date: 12 November 2004

Title: Pulse-Based Communication

Attorney Docket No.: 868A.0034.U1(US)

Certificate of Mailing

I hereby certify that the following correspondence:

Transmittal Letter to U.S. Designated/Elected Office

Preliminary Amendment

WO 2005/048478 A1 published application

Declaration and Power of Attorney

Assignment and Form PTO-1595

Information Disclosure Statement with PTO-1449 and references

International Search Report, Finnish Search Report and

International Preliminary Report on Patentability

Check for \$ 1140.00

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Is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, Mail Stop PCT.

Date: May 9, 2006

Debrá Pongetti